

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 12-22 and ADD new claims 23-32 in accordance with the following:

Claims 1-22. (Cancelled)

23. (NEW) A method, comprising:

receiving a signal in a receiver station via a first transmitting channel from a sending station;

determining a channel parameter of the first transmitting channel using the receiver station;

adjusting a symbol parameter of a first data symbol to be transmitted from the receiver station to the sending station via a second transmitting channel, the adjusting based on a function of a value of the channel parameter of the first transmitting channel; and

changing a symbol parameter of a second data symbol to be transmitted from the receiver station to the sending station by a mathematical operation opposite from adjusting of a the symbol parameter of the first data symbol.

24. (NEW) A method according to claim 23, further comprising:

transmitting the first and second data symbols from the receiver station to the sending station; and

ascertaining at the sending station the channel parameter of the first transmitting channel determined by the receiver station, based on the first and second data symbol received at the sending station.

25. (NEW) A method according to claim 24, wherein the channel parameter of the first transmitting channel is at least one of a phase parameter and an amplitude parameter.

26. (NEW) A method according to claim 25, wherein said adjusting includes changing the symbol parameter of the first data symbol to be transmitted from the receiver station by at least one of addition and subtraction of the value of the channel parameter of the first transmitting channel.

27. (NEW) A method according to claim 26, wherein the first and second data symbol transmitted from the receiver station are pilot symbols.

28. (NEW) A method according to claim 26, wherein the first and second data symbols transmitted from the receiver station are user data.

29. (NEW) A method according to claim 26, wherein a plurality of available transmitting channels exist for transmission from the sending station to the receiver station, and said receiving, determining, adjusting, transmitting and ascertaining are repeated using each of the available transmitting channels as the first transmitting channel.

30. (NEW) A method according to claim 29, wherein the receiver station has a plurality of receiving antennas and/or the sending station has a plurality of sending antennas, and one of the first transmitting channels is situated between one of the sending antennas and one of the receiving antennas.

31. (NEW) A receiver station for a radio communication system having a sending station; comprising:

- a receiving unit receiving a signal from the sending station via a first transmitting channel;
- a determination unit determining a channel parameter of the first transmitting channel;
- an adjustment unit changing a symbol parameter of a first data symbol to be transmitted from said receiver station to the sending station via a second transmitting channel, the adjustment unit changing the symbol parameter of the first data symbol based on a function of a value of the channel parameter of the first transmitting channel; and

- a changing unit changing a symbol parameter of a second data symbol to be transmitted from the receiver station to the sending station by a mathematical operation opposite to the changing of the first data symbol.

32. (NEW) A sending station for a radio communication system having at least one

receiver station, comprising:

- a transmission unit sending a signal via a first transmitting channel to the receiver station;
- a receiver unit receiving from the receiver station a first data symbol having a first symbol parameter adjusted for communication as a function of a value of a channel parameter of the first transmitting channel and a second data symbol having a second symbol parameter adjusted for communication according to a mathematical operation opposite to the adjusting of the first symbol parameter; and

- an ascertainment unit ascertaining the channel parameter based on the first and second data symbol received from the receiver unit.